Checking the rear view mirror. Answering a phone call. Glancing at kids in the backseat.

These seconds are critical when it comes to avoiding an imminent collision. Never distracted or fatigued, Mobileye alerts drivers to the following dangerous driving situations:

- **Collision with a vehicle ahead**
- **Unintended lane departure**
- **Insufficient distance keeping**

Day or night, in clear or inclement weather, MOBILEYE AWS is the unique 3 in 1 safety solution for accident prevention and mitigation, selected by fleets and families worldwide.

DID YOU KNOW?

- **93% of all accidents** are due to human error, driver inattention being the primary cause.[1]
- **Close to 80% of accidents** include driver inattention in the 3 seconds preceding the accident.[2]
- **60% of road accident** fatalities are due to unintentional lane departures.[3]
- **90% of rear-end accidents** can be prevented by receiving 1.5 seconds of advance warning.[4]

Benefits of Mobileye
Warns of unintentional lane departure
Warns of imminent rear-end accident situations
Prevents low speed bumper-to-bumper accidents
Promotes safer driving habits including improved use of turn signals and safer headway keeping
Increases driver's awareness of danger
Reduces the driver's load and increases driving safety
Provides a tool for driver evaluation and training
Data gathered can be recorded and analyzed with complementing solutions
Provides a cost effective safety solution for fleet owners
Reduces insurance rates due to accident reduction
Reduces maintenance costs due to improved driving

[1] The Relative Frequency Of Unsafe Driving Acts In Serious Traffic Crashes, NHTSA
[2] 100-Car Naturalistic Driving Study, NHTSA and the Virginia Tech Transportation Institute
[3] Road Safety Fact Sheet, U.S. Department of Transportation, Federal Highway Administration
[4] Daimler Benz Study

Mobileye Technologies Limited. All rights reserved, 2009
Mobileye® and AWS® are trademarks of Mobileye Vision Technologies Limited.

Our Vision. Your Safety.

www.mobileye.com

MOBILEYE

AWS

MOBILEYE Advance Warning System

Our Vision. Your Safety.

www.mobileye.com

MOBILEYE AWS Advance Warning System

Selected by leading automakers including BMW, Volvo and GM, Mobileye is recognized as the international leader in vision-based driver assistance technologies.

Developed in one of the largest automotive vision-technology research centers worldwide,all Mobileye applications are fueled by a sophisticated vision-system-on-a-chip that analyzes real-time images and road scenes. Mobileye's ongoing technology development will continue to assist automakers to push the boundaries of Advanced Driver Assistance Systems (ADAS) such as Pedestrian Detection, High Beam Assist, Traffic Sign recognition, Adaptive Cruise Control and more.

Mobileye's innovative product line, the MOBILEYE Advance Warning System (AWS) is the safety solution of choice for leading fleets, commercial and private drivers, and insurance companies worldwide.

Mobileye's automotive safety solutions provide drivers with timely alerts to prevent forward collision and lane departure accidents, the most common and dangerous threats on the road today.

Functioning as an extra 'eye' MOBILEYE AWS continuously analyzes the road ahead and provides alerts only when necessary. Both the seasoned and novice driver are safeguarded when distraction or fatigue strike.

Mobileye is the only driver safety solution offering the 3 essential accident-prevention warnings in one unit.

Mobileye features unique technological achievements:

- Monocular approach - the ability to perform obstacle detection, range and relative speed measurement with a single camera.
- A unique range of vision based DAS applications.
- The Mobileye EyeQ™ vision-system-on-a-chip.

EyeQ™, Mobileye's processor which runs its vision algorithms, is a complete vision-system-on-a-chip with the equivalent computing power of two powerful Pentium computers and at a fraction of the cost. Mobileye EyeQ™ meets automotive cabin grade qualification requirements.

Mobileye's algorithms use an advanced spatio-temporal classification technique based on a novel machine learning approach that trains the system with static and dynamic visual information. The sophistication of the pattern recognition cores allows robust processing using a monocular (single camera sensor) configuration.

Applications that have been specifically developed for vehicle manufacturers, such as: Pedestrian Detection, High Beam Assist and Traffic Sign Recognition will be incorporated into Mobileye's product line in future versions.

The Mobileye AWS product line is a unique, camera-based safety solution for accident prevention and mitigation, preventing injuries and saving lives.

The system includes a smart camera located on the front windshield inside the vehicle and utilizes Mobileye's advanced vision technologies to detect and measure the distance to vehicles and to lane markings, providing the driver with timely alerts.

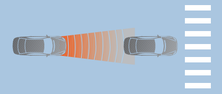
The system helps drivers in situations where they are distracted and might not notice a dangerous situation. Even two seconds of distraction while answering the mobile phone, turning around to the kids, or driving while tired, can lead to a road accident.

3rd Party Connectivity

Mobileye creates data that can be exported to 3rd party systems such as Fleet Management Solutions, blackbox recorders, driver training systems and more. Mobileye captures driving events such as tailgating, lane deviation and imminent forward collision. Once made available to 3rd party systems, the information is used for driver evaluation, training and improvement. Data provided is used for enhancing any driving-related risk management program.

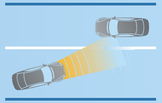
Mobileye AWS equips drivers with the following safety features:

Forward Collision Warning (FCW)



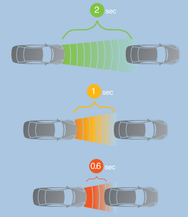
Assists in preventing collisions with vehicles ahead, by alerting drivers to both moving and stationary vehicles. Alerts are provided up to 2.7 seconds before collision – enough time to safely stop and avoid an accident, both on the highway and in urban areas.

Lane Departure Warning (LDW)



Alerts the driver to unintentional lane departures by monitoring vehicle position in the lane. By utilizing road detection technology an alert is sounded if the driver has unintentionally departed from a lane without using the appropriate turn signal. The system issues an audio and a visual warning, giving the driver more time to react.

Headway Monitoring and Warning (HMW)



By calculating the distance from the vehicle ahead, Mobileye provides distance indication to drivers. Maintaining a regular safe distance is a task drivers tend to underestimate, resulting in accidents caused by insufficient distance keeping. The headway monitoring function provides the driver with both numerical and color headway data. The headway warning function provides an audio alert when the headway becomes critically short.

The MOBILEYE AWS Product Line

From fleets to family cars, the expanded Mobileye product line offers the most comprehensive and cost-effective accident prevention solution on the market.

All products in the MOBILEYE AWS line employ the same cutting-edge technology with a variety of user interfaces to suit driver preference and budget. The systems utilize a smart camera placed on the windshield inside the vehicle to measure distances to lanes and vehicles, offering real-time warnings in times of danger, dramatically reducing the chances of an accident.

Mobileye's EyeQ™ vision-system-on-a-chip, running Mobileye's algorithms, represents a technological breakthrough that combines high performance with low cost, and the consolidation of multiple assistance applications on a single platform for accident prevention.

MOBILEYE AWS-4000 Offers audio and visual alerts by a color-coded display, numerical alerts, and dedicated speakers.

MOBILEYE AWS-4000C (Commercial) Designed for commercial vehicles in a severe service environment. This robust product offers an enhanced alert scheme for distance keeping, J1939 support, and fleet management solutions connectivity.

MOBILEYE AWS-2000 Offers audio alerts to ensure safe lane position and forward collision warning in the most compact and cost effective product to date.

MOBILEYE AWS-2000C (Commercial) Designed for commercial vehicles in a severe service environment, this robust product offers an enhanced alert scheme for J1939 support, and fleet management solutions connectivity.

MOBILEYE AWS-1000 Exclusively for automobile integrators, working in tandem with other in-vehicle devices, such as GPS, fleet management systems and more.

	MOBILEYE AWS-4000	MOBILEYE AWS-4000C	MOBILEYE AWS-2000	MOBILEYE AWS-2000C	MOBILEYE AWS-1000
Safety Features					Development Platform
Forward Collision Warning	✔	✔	✔	✔	✔
Lane Departure Warning	✔	✔	✔	✔	✔
Headway Monitoring and Warning	✔	✔			✔
Urban Forward Collision Warning	✔	✔	✔	✔	✔
Driver Interface					
Display Unit	✔	✔			
Audio Alert	✔	✔	✔	✔	
Stereo Speakers	✔	✔			
Customized Warning Sensitivity	✔	✔			
CAN Interface	✔	✔	✔	✔	✔
3rd Party Connectivity	*	*	*	*	✔

* Optional